

**Table 1**  
**March 2004 Groundwater Monitoring Results - VOCs**  
**Draft - Unvalidated Data**  
**Northern States Power, Ashland, Wisconsin**

Analyte	Units	MW-2BR	MW-2C	MW-2C Dup	MW-4A	MW-4B	MW-5A	MW-5B	MW-5C	MW-6A	PAL	ES	MCL <sup>(1)</sup>
<b>VOCs</b>													
Benzene	µg/L	2300	0.52	0.55	18000	15000	24000	37000	1.0	<0.12	0.5	5	5
sec-Butylbenzene	µg/L	<63	<0.16	<0.16	<310	<39	<310	<390	<0.16	<0.16	--	--	--
Ethylbenzene	µg/L	650	<0.17>	<0.16>	2400	720	2400	<650>	<0.14	<0.14	140	700	700
ortho-Xylene	µg/L	1300	<0.24>	<0.25>	1300	2000	900	1600	<0.20>	<0.13	--	--	--
Styrene	µg/L	2900	<0.29>	<0.27>	970	4600	<470>	4500	0.57	<0.14	10	100	100
Toluene	µg/L	7300	<0.76>	0.79	8300	17000	4900	20000	0.91	<0.20	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	510	<0.29>	<0.28>	<510>	690	<290	<480>	<0.16>	<0.14	--	--	--
1,3,5-Trimethylbenzene	µg/L	<130>	<0.12	<0.12	<240	170	<240	<310	<0.12	<0.12	--	--	--
Total Trimethylbenzene	µg/L	640	<0.29>	<0.28>	<510>	860	<530	<480>	<0.16>	<0.26	96	480	--
meta, para-Xylene	µg/L	2600	<0.41>	<0.40>	2500	4000	<1700>	3100	<0.43>	<0.26	--	--	--
Total Xylenes	µg/L	3900	<0.65>	<0.65>	3800	6000	2600	4700	<0.63>	<0.39	1,000	10,000	10,000
1,2,3-Trimethylbenzene	µg/L	<82	<0.21	<0.21	<410	<51	<410	<510	<0.21	<0.21	--	--	--
<b>Total VOCs</b>	µg/L	<b>17,690</b>	<b>2.68</b>	<b>2.70</b>	<b>33,980</b>	<b>44,180</b>	<b>34,370</b>	<b>67,330</b>	<b>3.27</b>	<b>0</b>			

Analyte	Units	MW-7A	MW-8A	MW-9A	MW-9A Dup	MW-9B	MW-9C	MW-10A	MW-13A	MW-13C	PAL	ES	MCL <sup>(1)</sup>
<b>VOCs</b>													
Benzene	µg/L	11000	4700	32	77	2500	31	<0.12	42000	<0.12	0.5	5	5
sec-Butylbenzene	µg/L	<160	<63	<0.63	<0.63	<31	<13	<0.16	<630	<0.16	--	--	--
Ethylbenzene	µg/L	1300	250	12	10	160	47	<0.14	<780>	<0.14	140	700	700
ortho-Xylene	µg/L	770	<120>	6.3	5.6	150	110	<0.13	<1400>	<0.13	--	--	--
Styrene	µg/L	1000	<56	1.9	2.1	110	300	<0.14	3500	<0.14	10	100	100
Toluene	µg/L	6300	370	45	53	560	480	<0.20	21000	<0.20	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	<410>	<58	4.6	2.8	<77>	61	<0.14	<580	<0.14	--	--	--
1,3,5-Trimethylbenzene	µg/L	<120	<49	<1.4>	<0.82>	<24	<16>	<0.12	<490	<0.12	--	--	--
Total Trimethylbenzene	µg/L	<410>	<107	6.0	3.62	<77>	77	<0.26	<1070	<0.26	96	480	--
meta, para-Xylene	µg/L	1500	<150>	14	12	280	240	<0.26	<2600>	<0.26	--	--	--
Total Xylenes	µg/L	2270	<270>	20.3	17.6	430	350	<0.39	4000	<0.39	1,000	10,000	10,000
1,2,3-Trimethylbenzene	µg/L	<210	<82	<0.82	<0.82	<41	<16	<0.21	<820	<0.21	--	--	--
<b>Total VOCs</b>	µg/L	<b>22,280</b>	<b>5,590</b>	<b>117.2</b>	<b>163.3</b>	<b>3,837</b>	<b>1,285</b>	<b>0</b>	<b>71,280</b>	<b>0</b>			

< - Below detection limit

>> Between Limit of Detection and Limit of Quantification

Bold face indicates positive detections; concentrations exceeding the PAL are in italics

Concentrations exceeding the ES are shaded.

<sup>(1)</sup> MCL is USEPA's Maximum Contaminant Level for drinking water.

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**March 2004 Groundwater Monitoring Results - VOCs**  
**Draft - Unvalidated Data**  
**Northern States Power, Ashland, Wisconsin**

Analyte	Units	MW-13D	MW-15B	MW-17A	MW-18A	MW-18B	MW-19A	MW-19B	MW-20A	MW-21A	PAL	ES	MCL <sup>(1)</sup>
<b>VOCs</b>													
Benzene	µg/L	<0.14>	76	<0.12	44000	2.1	33000	7100	<0.12	10000	0.5	5	5
sec-Butylbenzene	µg/L	<0.16	<0.79	<0.16	<630	<0.16	<390	<79	<0.16	<160	--	--	--
Ethylbenzene	µg/L	<0.14	<2.1>	<0.14	1900	<0.16>	<620>	310	<0.14	<440>	140	700	700
ortho-Xylene	µg/L	<0.13	5.9	<0.13	<1100>	<0.13	1300	820	<0.13	1200	--	--	--
Styrene	µg/L	<0.14	15	<0.14	<1200>	<0.14	3300	2300	<0.14	3100	10	100	100
Toluene	µg/L	<0.20	54	<0.20	16000	0.77	17000	7900	<0.20	12000	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	<0.14	2.9	<0.14	<580	<0.14	<420>	290	<0.14	<390>	--	--	--
1,3,5-Trimethylbenzene	µg/L	<0.12	<0.95>	<0.12	<490	<0.12	<310	<75>	<0.12	<160>	--	--	--
Total Trimethylbenzene	µg/L	<0.26	3.85	<0.26	<1070	<0.26	<420>	365	<0.26	<550>	96	480	
meta, para-Xylene	µg/L	<0.26	12	<0.26	<2000>	<0.26	2500	1700	<0.26	2300	--	--	--
Total Xylenes	µg/L	<0.39	18	<0.39	<3100>	<0.39	3800	2520	<0.39	3500	1,000	10,000	10,000
1,2,3-Trimethylbenzene	µg/L	<0.21	<1.0	<0.21	<820	<0.21	<510	<100	<0.21	<210	--	--	--
<b>Total VOCs</b>	µg/L	<b>0.14</b>	<b>168.9</b>	<b>0</b>	<b>66,200</b>	<b>3.03</b>	<b>58,140</b>	<b>20,495</b>	<b>0</b>	<b>29,590</b>			

Analyte	Units	MW-21B	MW-22A	MW-22B	MW-22B Dup	MW-2A Net Dup	MW-2A Net	MW-2B Net	AW-1	AW-2	PAL	ES	MCL <sup>(1)</sup>
<b>VOCs</b>													
Benzene	µg/L	120	42000	7.9	8.5	3.0	3.0	21000	<0.12	<0.12	0.5	5	5
sec-Butylbenzene	µg/L	<16	<630	<0.79	<0.79	<0.39	<0.39	<310	<0.16	<0.16	--	--	--
Ethylbenzene	µg/L	<29>	<640>	2.5	2.6	1.4	1.3	3700	<0.14	<0.14	140	700	700
ortho-Xylene	µg/L	76	<1500>	5.4	6.0	2.4	2.4	1200	<0.13	<0.13	--	--	--
Styrene	µg/L	130	4100	16	17	3.7	3.7	<280>	<0.14	<0.14	10	100	100
Toluene	µg/L	190	21000	27	28	2.0	2.0	8600	<0.20	<0.20	200	1,000	1,000
1,2,4-Trimethylbenzene	µg/L	100	<580	3.4	3.5	2.2	2.1	<390>	<0.14	<0.14	--	--	--
1,3,5-Trimethylbenzene	µg/L	43	<490	<0.84>	<0.86>	<0.61>	<0.58>	<240	<0.12	<0.12	--	--	--
Total Trimethylbenzene	µg/L	143	<1070	4.24	4.36	2.81	2.68	<390>	<0.26	<0.26	96	480	
meta, para-Xylene	µg/L	150	<3000>	13	14	5.3	5.1	2400	<0.26	<0.26	--	--	--
Total Xylenes	µg/L	226	<4500>	18.4	20.0	7.7	7.5	3600	<0.39	<0.39	1,000	10,000	10,000
1,2,3-Trimethylbenzene	µg/L	<21	<820	<1.0	<1.0	<0.51	<0.51	<410	<0.21	<0.21	--	--	--
<b>Total VOCs</b>	µg/L	<b>838.0</b>	<b>72,240</b>	<b>76.0</b>	<b>80.5</b>	<b>20.6</b>	<b>20.2</b>	<b>37,570</b>	<b>0</b>	<b>0</b>			

< - Below detection limit

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Bold face indicates positive detections; concentrations exceeding the PAL are in italics

Concentrations exceeding the ES are shaded.

<sup>(1)</sup> MCL is USEPA's Maximum Contaminant Level for drinking water.

**Table 2**  
**March 2004 Groundwater Monitoring Results - SVOCs**  
**Draft - Unvalidated Data**  
**Northern States Power, Ashland, Wisconsin**

Analyte	Units	MW-2BR	MW-2C	MW-2C Dup	MW-4A	MW-4B	MW-5A	MW-5B	MW-5C	MW-6A	PAL	ES	MCL <sup>(1)</sup>
<b>SVOCs</b>													
Acenaphthene	µg/L	<67	<0.67	<0.67	<130	<67	<67	<130	<0.67	<0.67	--	--	0.2
Acenaphthylene	µg/L	<b>&lt;250&gt;</b>	<1.3	<1.3	<b>&lt;480&gt;</b>	<b>&lt;420&gt;</b>	<130	<b>&lt;280&gt;</b>	<1.3	<1.3	--	--	0.2
Anthracene	µg/L	<41	<0.41	<0.41	<82	<b>&lt;43&gt;</b>	<41	<82	<0.41	<0.41	600	<b>3,000</b>	0.2
Benzo(a)anthracene	µg/L	<43	<0.43	<0.43	<86	<43	<43	<86	<0.43	<0.43	--	--	0.2
Benzo(a)pyrene	µg/L	<42	<0.42	<0.42	<85	<42	<42	<85	<0.42	<0.42	0.02	<b>0.2</b>	0.2
Benzo(b)fluoranthene	µg/L	<56	<0.56	<0.56	<110	<56	<56	<110	<0.56	<0.56	0.02	<b>0.2</b>	0.2
Benzo(g,h,i)perylene	µg/L	<91	<0.91	<0.91	<180	<91	<91	<180	<0.91	<0.91	--	--	0.2
Benzo(k)fluoranthene	µg/L	<90	<0.90	<0.90	<180	<90	<90	<180	<0.90	<0.90	--	--	0.2
Chrysene	µg/L	<120	<1.2	<1.2	<230	<120	<120	<230	<1.2	<1.2	0.02	<b>0.2</b>	0.2
Dibenzo(a,h,)anthracene	µg/L	<56	<0.56	<0.56	<110	<56	<56	<110	<0.56	<0.56	20	<b>100</b>	0.2
Dibenzofuran	µg/L	<130	<1.3	<1.3	<260	<130	<130	<260	<1.3	<1.3	--	--	0.2
Fluoranthene	µg/L	<42	<0.42	<0.42	<83	<42	<42	<83	<0.42	<0.42	80	<b>400</b>	0.2
Fluorene	µg/L	<61	<0.61	<0.61	<120	<b>&lt;93&gt;</b>	<61	<120	<0.61	<0.61	80	<b>400</b>	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<54	<0.54	<0.54	<110	<54	<54	<110	<0.54	<0.54	--	--	0.2
1-Methylnaphthalene	µg/L	<b>590</b>	<b>&lt;1.7&gt;</b>	<b>&lt;1.6&gt;</b>	<b>1,400</b>	<b>960</b>	<b>250</b>	<b>740</b>	<0.76	<0.76	--	--	0.2
2-Methylnaphthalene	µg/L	<b>880</b>	<b>&lt;2.1&gt;</b>	<b>&lt;1.9&gt;</b>	<b>2,000</b>	<b>1400</b>	<b>320</b>	<b>1,100</b>	<0.76	<0.76	--	--	0.2
2-Methylphenol	µg/L	<120	<1.2	<1.2	<b>&lt;370&gt;</b>	<120	<b>480</b>	<b>1,700</b>	<1.2	<1.2	--	--	0.2
3 & 4-Methylphenol	µg/L	<130	<1.3	<1.3	<b>&lt;630&gt;</b>	<130	<b>500</b>	<b>2,800</b>	<1.3	<1.3	--	--	0.2
Naphthalene	µg/L	<b>4,400</b>	<b>3.4</b>	<b>3.3</b>	<b>8,300</b>	<b>4,900</b>	<b>3,100</b>	<b>7,300</b>	<b>&lt;2.1&gt;</b>	<0.73	8	<b>40</b>	0.2
Phenanthrene	µg/L	<41	<b>&lt;0.54&gt;</b>	<b>&lt;0.53&gt;</b>	<b>&lt;190&gt;</b>	<b>160</b>	<41	<82	<0.41	<0.41	--	--	0.2
Phenol	µg/L	<51	<0.51	<0.51	<b>&lt;220&gt;</b>	<51	<51	<b>1,100</b>	<0.51	<0.51	--	--	0.2
Pyrene	µg/L	<98	<0.98	<0.98	<200	<98	<98	<200	<0.98	<0.98	50	<b>250</b>	0.2
Benzo (e) pyrene	µg/L	<500	<5.0	<5.0	<1000	<500	<500	<1000	<5.0	<5.0	--	--	--
<b>Total SVOCs</b>	µg/L	<b>6,120</b>	<b>7.7</b>	<b>7.3</b>	<b>13,590</b>	<b>7,976</b>	<b>4,650</b>	<b>15,020</b>	<b>2.1</b>	<b>0</b>			

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**Draft - Unvalidated Data**  
**Northern States Power, Ashland, Wisconsin**

Analyte	Units	MW-7A	MW-8A	MW-9A	MW-9A Dup*	MW-9B	MW-9C	MW-10A	MW-13A	MW-13C	PAL	ES	MCL <sup>(1)</sup>
<b>SVOCs</b>													
Acenaphthene	µg/L	<130	<1.7	43	3.8	<26>	<13	<0.67	<130	<0.67	--	--	0.2
Acenaphthylene	µg/L	<b>&lt;290&gt;</b>	<3.2	<b>&lt;29&gt;</b>	<b>&lt;1.5&gt;</b>	<b>&lt;80&gt;</b>	<b>&lt;36&gt;</b>	<1.3	<b>&lt;410&gt;</b>	<1.3	--	--	0.2
Anthracene	µg/L	<82	<1.0	<b>38</b>	<b>&lt;1.2&gt;</b>	<b>&lt;16&gt;</b>	<8.2	<0.41	<82	<0.41	600	<b>3,000</b>	0.2
Benzo(a)anthracene	µg/L	<86	<1.1	<b>19</b>	<0.43	<11	<8.6	<0.43	<86	<0.43	--	--	0.2
Benzo(a)pyrene	µg/L	<85	<1.1	<b>16</b>	<0.42	<11	<8.5	<0.42	<85	<0.42	0.02	<b>0.2</b>	0.2
Benzo(b)fluoranthene	µg/L	<110	<1.4	<b>&lt;9.0&gt;</b>	<0.56	<14	<11	<0.56	<110	<0.56	0.02	<b>0.2</b>	0.2
Benzo(g,h,i)perylene	µg/L	<180	<2.3	<9.1	<0.91	<23	<18	<0.91	<180	<0.91	--	--	0.2
Benzo(k)fluoranthene	µg/L	<180	<2.3	<9.0	<0.90	<23	<18	<0.90	<180	<0.90	--	--	0.2
Chrysene	µg/L	<230	<2.9	<b>&lt;18&gt;</b>	<1.2	<29	<23	<1.2	<230	<1.2	0.02	<b>0.2</b>	0.2
Dibenz(a,h,)anthracene	µg/L	<110	<1.4	<5.6	<0.56	<14	<11	<0.56	<110	<0.56	20	<b>100</b>	0.2
Dibenzofuran	µg/L	<260	<3.3	<13	<1.3	<33	<26	<1.3	<260	<1.3	--	--	0.2
Fluoranthene	µg/L	<83	<1.0	<b>43</b>	<b>&lt;1.1&gt;</b>	<b>&lt;14&gt;</b>	<8.3	<0.42	<83	<0.42	80	<b>400</b>	0.2
Fluorene	µg/L	<120	<1.5	<b>41</b>	<b>2.1</b>	<b>&lt;34&gt;</b>	<12	<0.61	<120	<0.61	80	<b>400</b>	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<110	<1.4	<5.4	<0.54	<14	<11	<0.54	<110	<0.54	--	--	0.2
1-Methylnaphthalene	µg/L	<b>700</b>	<1.9	<b>130</b>	<b>10</b>	<b>250</b>	<b>92</b>	<0.76	<b>960</b>	<0.76	--	--	0.2
2-Methylnaphthalene	µg/L	<b>1,100</b>	<1.9	<b>200</b>	<b>15</b>	<b>270</b>	<b>130</b>	<0.76	<b>1,400</b>	<0.76	--	--	0.2
2-Methylphenol	µg/L	<b>&lt;370&gt;</b>	<b>28</b>	<12	<1.2	<30	<24	<1.2	<b>810</b>	<1.2	--	--	0.2
3 & 4-Methylphenol	µg/L	<b>&lt;460&gt;</b>	<b>&lt;8.2&gt;</b>	<13	<1.3	<32	<25	<1.3	<b>950</b>	<1.3	--	--	0.2
Naphthalene	µg/L	<b>4,600</b>	<1.8	<b>350</b>	<b>37</b>	<b>780</b>	<b>660</b>	<0.73	<b>7,400</b>	<0.73	8	<b>40</b>	0.2
Phenanthrene	µg/L	<82	<1.0	<b>120</b>	<b>4.8</b>	<b>56</b>	<8.2	<0.41	<82	<0.41	--	--	0.2
Phenol	µg/L	<100	<b>9.5</b>	<5.1	<0.51	<13	<10	<0.51	<b>&lt;130&gt;</b>	<0.51	--	--	0.2
Pyrene	µg/L	<200	<2.4	<b>60</b>	<b>&lt;1.5&gt;</b>	<24	<20	<0.98	<200	<0.98	50	<b>250</b>	0.2
Benzo (e) pyrene	µg/L	<1000	<13	<50	<5.0	<130	<100	<5.0	<1000	<5.0	--	--	--
<b>Total SVOCs</b>	µg/L	<b>7,520</b>	<b>45.7</b>	<b>1,116</b>	<b>78.0</b>	<b>1,526</b>	<b>918.0</b>	<b>0</b>	<b>12,060</b>	<b>0</b>			

\* The results from this duplicate do not match with well MW-9A.

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Analyte	Units	MW-13D	MW-15B	MW-17A	MW-18A	MW-18B	MW-19A	MW-19B	MW-20A	MW-21A	PAL	ES	MCL <sup>(1)</sup>
<b>SVOCs</b>													
Acenaphthene	µg/L	<0.67	<1.3	<0.67	<130	<0.67	<130	<130	<0.67	<130	--	--	0.2
Acenaphthylene	µg/L	<1.3	< <b>4.0</b> >	<1.3	<260	<1.3	< <b>260</b> >	<260	<1.3	< <b>310</b> >	--	--	0.2
Anthracene	µg/L	<0.41	<0.82	<0.41	<82	<0.41	<82	<82	<0.41	<82	600	<b>3,000</b>	0.2
Benzo(a)anthracene	µg/L	<0.43	<0.86	<0.43	<86	<0.43	<86	<86	<0.43	<86	--	--	0.2
Benzo(a)pyrene	µg/L	<0.42	<0.85	<0.42	<85	<0.42	<85	<85	<0.42	<85	0.02	<b>0.2</b>	0.2
Benzo(b)fluoranthene	µg/L	<0.56	<1.1	<0.56	<110	<0.56	<110	<110	<0.56	<110	0.02	<b>0.2</b>	0.2
Benzo(g,h,i)perylene	µg/L	<0.91	<1.8	<0.91	<180	<0.91	<180	<180	<0.91	<180	--	--	0.2
Benzo(k)fluoranthene	µg/L	<0.90	<1.8	<0.90	<180	<0.90	<180	<180	<0.90	<180	--	--	0.2
Chrysene	µg/L	<1.2	<2.3	<1.2	<230	<1.2	<230	<230	<1.2	<230	0.02	<b>0.2</b>	0.2
Dibenzo(a,h,)anthracene	µg/L	<0.56	<1.1	<0.56	<110	<0.56	<110	<110	<0.56	<110	20	<b>100</b>	0.2
Dibenzofuran	µg/L	<1.3	<2.6	<1.3	<260	<1.3	<260	<260	<1.3	<260	--	--	0.2
Fluoranthene	µg/L	<0.42	<0.83	<0.42	<83	<0.42	<83	<83	<0.42	<83	80	<b>400</b>	0.2
Fluorene	µg/L	<0.61	< <b>1.5</b> >	<0.61	<120	<0.61	<120	<120	<0.61	<120	80	<b>400</b>	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<0.54	<1.1	<0.54	<110	<0.54	<110	<110	<0.54	<110	--	--	0.2
1-Methylnaphthalene	µg/L	<b>2.5</b>	<b>8.9</b>	<0.76	< <b>340</b> >	<0.76	<b>750</b>	< <b>380</b> >	<0.76	<b>730</b>	--	--	0.2
2-Methylnaphthalene	µg/L	< <b>0.83</b> >	<b>11</b>	<0.76	< <b>490</b> >	<0.76	<b>1,100</b>	<b>550</b>	<0.76	<b>1,100</b>	--	--	0.2
2-Methylphenol	µg/L	<1.2	<2.4	<1.2	<b>2,800</b>	<1.2	< <b>470</b> >	<240	<1.2	<240	--	--	0.2
3 & 4-Methylphenol	µg/L	<1.3	<2.5	<1.3	<b>3,100</b>	<1.3	< <b>660</b> >	<250	<1.3	<250	--	--	0.2
Naphthalene	µg/L	< <b>2.1</b> >	<b>34</b>	<0.73	<b>3,800</b>	<0.73	<b>6,300</b>	<b>3,500</b>	<0.73	<b>6,000</b>	8	<b>40</b>	0.2
Phenanthrene	µg/L	< <b>1.2</b> >	<b>2.7</b>	<0.41	<82	<0.41	<82	<82	<0.41	<82	--	--	0.2
Phenol	µg/L	<0.51	<1.0	<0.51	<b>500</b>	<0.51	< <b>150</b> >	<100	<0.51	<100	--	--	0.2
Pyrene	µg/L	<0.98	<2.0	<0.98	<200	<0.98	<200	<200	<0.98	<200	50	<b>250</b>	0.2
Benzo (e) pyrene	µg/L	<5.0	<10	<5.0	<1000	<5.0	<1000	<1000	<5.0	<1000	--	--	--
<b>Total SVOCs</b>	µg/L	<b>6.6</b>	<b>62.1</b>	<b>0</b>	<b>11,030</b>	<b>0</b>	<b>9,690</b>	<b>4,430</b>	<b>0</b>	<b>8,140</b>			

< - Below detection limit

<> Between Limit of Detection and Limit of Quantification

Bold face indicates positive detections; concentrations exceeding the PAL are in italics

Concentrations exceeding the ES are shaded

(<sup>1</sup>) MCL is USEPA's Maximum Contaminant Level for drinking water.

**Table 2**  
**March 2004 Groundwater Monitoring Results - SVOCs**  
**Draft - Unvalidated Data**  
**Northern States Power, Ashland, Wisconsin**

Analyte	Units	MW-21B	MW-22A	MW-22B	MW-22B Dup	MW-2A Net	MW-2A Net Dup	MW-2B Net	AW-1	AW-2	PAL	ES	MCL <sup>(1)</sup>
<b>SVOCs</b>													
Acenaphthene	µg/L	<18>	<270	<0.67	<0.67	<0.67	<0.67	<130	<0.67	<0.67	--	--	0.2
Acenaphthylene	µg/L	<b>150</b>	<1100>	<2.0>	<1.7>	<1.3	<1.3	<260	<1.3	<1.3	--	--	0.2
Anthracene	µg/L	<b>28</b>	<220>	<0.97>	<0.82>	<0.41	<0.41	<82	<0.41	<0.41	600	<b>3,000</b>	0.2
Benzo(a)anthracene	µg/L	<8.6	<170	<0.43	<0.43	<0.43	<0.43	<86	<0.43	<0.43	--	--	0.2
Benzo(a)pyrene	µg/L	<8.5	<170	<0.42	<0.42	<0.42	<0.42	<85	<0.42	<0.42	0.02	<b>0.2</b>	0.2
Benzo(b)fluoranthene	µg/L	<11	<230	<0.56	<0.56	<0.56	<0.56	<110	<0.56	<0.56	0.02	<b>0.2</b>	0.2
Benzo(g,h,i)perylene	µg/L	<18	<360	<0.91	<0.91	<0.91	<0.91	<180	<0.91	<0.91	--	--	0.2
Benzo(k)fluoranthene	µg/L	<18	<360	<0.90	<0.90	<0.90	<0.90	<180	<0.90	<0.90	--	--	0.2
Chrysene	µg/L	<23	<460	<1.2	<1.2	<1.2	<1.2	<230	<1.2	<1.2	0.02	<b>0.2</b>	0.2
Dibeno(a,h,)anthracene	µg/L	<11	<220	<0.56	<0.56	<0.56	<0.56	<110	<0.56	<0.56	20	<b>100</b>	0.2
Dibenzofuran	µg/L	<26	<530	<1.3	<1.3	<1.3	<1.3	<260	<1.3	<1.3	--	--	0.2
Fluoranthene	µg/L	<20>	<200>	<0.95>	<0.88>	<0.42	<0.42	<83	<0.42	<0.42	80	<b>400</b>	0.2
Fluorene	µg/L	<b>61</b>	<340>	<0.99>	<0.90>	<0.61	<0.61	<120	<0.61	<0.61	80	<b>400</b>	0.2
Indeno(1,2,3-cd) Pyrene	µg/L	<11	<220	<0.54	<0.54	<0.54	<0.54	<110	<0.54	<0.54	--	--	0.2
1-Methylnaphthalene	µg/L	<b>370</b>	<b>2900</b>	<b>5.8</b>	<b>5.0</b>	<b>2.5</b>	<b>&lt;2.4&gt;</b>	<320>	<0.76	<0.76	--	--	0.2
2-Methylnaphthalene	µg/L	<b>520</b>	<b>4300</b>	<b>8.0</b>	<b>7.1</b>	<b>3.5</b>	<b>3.5</b>	<450>	<0.76	<0.76	--	--	0.2
2-Methylphenol	µg/L	<24	<1100>	<1.2	<1.2	<1.2	<1.2	<410>	<1.2	<1.2	--	--	0.2
3 & 4-Methylphenol	µg/L	<25	1700	<1.3	<1.3	<1.3	<1.3	<490>	<1.3	<1.3	--	--	0.2
Naphthalene	µg/L	<b>670</b>	<b>14000</b>	<b>38</b>	<b>33</b>	<b>18</b>	<b>18</b>	<b>4,400</b>	<0.73	<0.73	8	<b>40</b>	0.2
Phenanthrene	µg/L	<b>110</b>	<b>710</b>	<b>3.1</b>	<b>2.8</b>	<0.41	<0.41	<82	<0.41	<0.41	--	--	0.2
Phenol	µg/L	<10	<660>	<0.51	<0.51	<0.51	<0.51	<100	<0.51	<0.51	--	--	0.2
Pyrene	µg/L	<26>	<390	<1.2>	<1.1>	<0.98	<0.98	<200	<0.98	<0.98	50	<b>250</b>	0.2
Benzo (e) pyrene	µg/L	<100	<2000	<5.0	<5.0	<5.0	<5.0	<1000	<5.0	<5.0	--	--	--
<b>Total SVOCs</b>	µg/L	<b>1,973</b>	<b>27,230</b>	<b>61.0</b>	<b>53.3</b>	<b>24.0</b>	<b>23.9</b>	<b>6,070</b>	<b>0</b>	<b>0</b>			

< - Below detection limit

<> Between Limit of Detection and Limit of Quantification

Bold face indicates positive detections; concentrations exceeding the PAL are in italics

Concentrations exceeding the ES are shaded.

<sup>(1)</sup> MCL is USEPA's Maximum Contaminant Level for drinking water.









**Table 4**  
**Remediation System Water Quality Monitoring Results**  
**Northern States Power, Ashland, Wisconsin**

April 2004

Analyte	Units	Influent	Precarbon	Effluent	<sup>(1)</sup> POTW	Method	Frequency
<b>PVOCs</b>							
Benzene	µg/L	<b>3,500</b>	<b>74</b>	<0.18	--	EPA 8260	Monthly
Bromoform	ug/L	<91	<9.1	<0.18	--	EPA 8260	Monthly
n-Butylbenzene	ug/L	<77	<7.7	<0.15	--	EPA 8260	Monthly
sec-Butylbenzene	ug/L	<89	<8.9	<0.18	--	EPA 8260	Monthly
Ethylbenzene	ug/L	< <b>130</b>	<9.1	<0.18	--	EPA 8260	Monthly
Isopropylbenzene	ug/L	<97	<9.7	<0.19	--	EPA 8260	Monthly
p-Isopropyltoluene	ug/L	<91	<9.1	<0.18	--	EPA 8260	Monthly
Methylene Chloride	ug/L	<88	<8.8	<0.18	--	EPA 8261	Monthly
Naphthalene	ug/L	<b>3,600</b>	<b>100</b>	< <b>0.28</b>	--	EPA 8260	Monthly
n-Propylbenzene	ug/L	<96	<9.6	<0.19	--	EPA 8260	Monthly
Toluene	ug/L	<b>2,400</b>	<b>80</b>	<0.21	--	EPA 8260	Monthly
1,2,4-Trimethylbenzene	ug/L	< <b>160</b>	< <b>30</b>	<0.18	--	EPA 8260	Monthly
1,3,5-Trimethylbenzene	ug/L	<90	<9.0	<0.18	--	EPA 8260	Monthly
Total Trimethylbenzene	ug/L	< <b>160</b>	< <b>30</b>	<0.36	--	EPA 8260	Monthly
ortho-xylene	ug/L	<b>350</b>	<b>30</b>	<0.17	--	EPA 8260	Monthly
meta, para-xylene	ug/L	< <b>510</b>	< <b>47</b>	<0.31	--	EPA 8260	Monthly
Xylene, Total	ug/L	<b>860</b>	<b>77</b>	<0.48	--	EPA 8260	Monthly
Styrene	ug/L	<b>1,000</b>	<b>69</b>	<0.18	--	EPA 8260	Monthly
<b>Total PVOCs</b>	µg/L	<b>11,650</b>	<b>430</b>	<b>0.28</b>	<b>(<sup>2</sup>)1000</b>		

**Collected April 27, 2004**

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

Concentrations exceeding the POTW have been shaded

<sup>(1)</sup>- POTW standards for effluent discharge

<sup>(2)</sup>1000 - POTW standard for total BTEX for effluent discharge

**Table 5**  
**Remediation System Air Monitoring Results**  
**Northern States Power, Ashland, Wisconsin**

April 2004

Analyte	Units	Air Stripper	1st Stage Carbon	Effluent	Method	Frequency
<b>VOCs</b>						
Volume Collected	Liters	3.0	3.0	5.0		Monthly
Benzene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Benzene	mg/m <sup>3</sup>	<6.67	<6.67	<4.0		Monthly
Ethylbenzene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Ethylbenzene	mg/m <sup>3</sup>	<6.67	<6.67	<4.0		Monthly
Hydrocarbons (total)	mg	<b>0.034</b>	<0.033	<b>0.048</b>	NIOSH 1550	Monthly
Hydrocarbons (total)	mg/m <sup>3</sup>	<b>11.3</b>	<b>11.0</b>	<b>9.6</b>		Monthly
Toluene	mg	<0.02	<0.02	<0.02	NIOSH 1501	Monthly
Toluene	mg/m <sup>3</sup>	<6.67	<6.67	<4.0		Monthly
Xylene, Total	mg	<0.03	<0.03	<0.03	NIOSH 1501	Monthly
Xylene, Total	mg/m <sup>3</sup>	<10.0	<10.0	<6.0		Monthly

**Collected April 27, 2004**

< - Less Than Limit of Detection

<> Between Limit of Detection and Limit of Quantification

**Table 6**  
**Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals)	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
20-Feb-01	554.2	4,853	22,826	0	22,826
30-Mar-01	850.0	7,443	44,613	0	44,613
26-Apr-01	915.2	8,014	56,978	0	56,978
17-May-01	1,078.2	9,442	58,967	0	58,967
11-Jun-01	1,291.2	11,307	61,094	0	61,094
31-Jul-01	1,535.2	13,444	65,758	0	65,758
15-Aug-01	1,578.0	13,819	65,758	0	65,758
12-Sep-01	1,578.0	14,193	81,524	0	81,524
28-Sep-01	1,789.9	15,674	104,500	0	104,500
12-Nov-01 <sup>1</sup>	2,486.4	21,773	104,900	0	104,900
13-Nov-01	2,551.6	22,344	106,200	0	106,200
14-Nov-01	2,559.7	22,415	107,600	0	107,600
19-Nov-01	2,600.5	22,772	114,200	0	114,200
28-Nov-01	2,682.0	23,486	125,200	0	125,200
03-Dec-01	2,779.8	24,342	131,500	0	131,500
12-Dec-01	2,877.6	25,199	142,300	0	142,300
19-Dec-01	2,975.4	26,055	155,328	0	155,328
03-Jan-02	3,105.8	27,197	172,000	0	172,000
05-Feb-02	3,105.7	27,197	173,116	0	173,116
11-Feb-02	3,122.0	27,340	178,300	0	178,300
12-Feb-02	3,122.1	27,340	180,100	0	180,100
19-Feb-02	3,122.1	27,340	182,900	0	182,900
06-Mar-02	3,138.4	27,483	183,000	0	183,000
12-Mar-02	3,187.3	27,911	194,400	0	194,400
18-Mar-02	3,219.9	28,196	199,400	0	199,400
27-Mar-02	3,317.7	29,053	210,500	0	210,500
03-Apr-02	3,350.3	29,338	216,600	0	216,600
09-Apr-02	3,399.2	29,767	224,000	0	224,000
23-Apr-02	3,473.6	30,419	238,100	0	238,100
30-Apr-02	3,514.3	30,775	246,700	0	246,700
08-May-02	3,538.8	30,989	256,900	0	256,900
15-May-02	3,587.7	31,418	264,500	0	264,500
20-May-02	3,612.1	31,631	266,900	0	266,900
24-May-02	3,636.5	31,845	268,365	10,935	279,300
28-May-02	3,652.8	31,988	272,215	13,185	285,400
17-Jun-02	3,669.1	32,131	287,693	28,507	316,200
25-Jun-02	3,726.2	32,631	295,908	35,492	331,400
02-Jul-02	3,766.9	32,987	299,147	42,153	341,300
09-Jul-02	3,783.2	33,130	306,783	42,717	349,500
17-Jul-02	3,799.5	33,272	314,710	49,990	364,700
22-Jul-02	3,824.0	33,487	319,384	54,516	373,900
29-Jul-02	3,864.7	33,843	326,542	57,158	383,700
08-Aug-02	3,905.5	34,201	334,406	68,394	402,800
15-Aug-02	3,921.8	34,343	340,391	68,609	409,000
09-Sep-02	3,942.1	34,521	343,084	79,816	422,900
19-Sep-02	4,003.3	35,057	350,659	91,441	442,100
26-Sep-02	4,003.3	35,057	356,565	91,535	448,100
04-Oct-02	4,003.3	35,057	363,135	93,265	456,400
11-Oct-02	4,003.3	35,057	374,863	94,737	469,600
18-Oct-02	4,027.8	35,272	374,863	94,737	485,600
25-Oct-02	4,158.2	36,414	379,459	116,901	496,360
31-Oct-02	4,166.3	36,484	381,556	121,045	502,600
08-Nov-02	4,166.3	36,484	390,756	121,045	511,800
21-Nov-02	4,753.3	41,625	387,629	124,272	511,900
26-Nov-02	4,773.6	41,803	391,434	127,566	519,000
04-Dec-02	4,789.9	41,945	398,205	129,795	528,000
10-Dec-02	4,802.2	42,053	403,230	130,971	534,200
18-Dec-02	4,826.6	42,267	410,356	132,444	542,800
23-Dec-02	4,842.9	42,409	412,967	133,333	546,300
30-Dec-02	4,855.1	42,516	415,842	134,458	550,300
10-Jan-03	4,883.7	42,767	425,575	136,125	561,700

**Table 6**  
**Summary of Coal Tar and Groundwater Volume Removed**

Date	Cumulative Volume of Coal Tar Removed (gals)	Cumulative Volume of Coal Tar Removed (lbs)	Cumulative Volume of Groundwater Removed from Wells EW-1, EW-2, EW-3 (gals) <sup>1</sup>	Cumulative Volume of Groundwater Removed from well EW-4 (gals)	Cumulative Volume of Total Groundwater Removed (gals)
15-Jan-03	4,900.0	42,910	429,541	136,859	566,400
20-Jan-03	4,920.3	43,087	434,133	137,567	571,700
30-Jan-03	4,952.9	43,373	442,556	138,844	581,400
13-Feb-03	4,989.6	43,694	454,019	140,881	594,900
19-Feb-03	5,007.8	43,854	456,851	141,149	598,000
26-Feb-03	5,036.3	44,103	463,081	142,019	605,100
04-Mar-03	5,036.3	44,103.1	468,458	142,742	611,200
27-Mar-03	5,036.3	44,103.1	471,979	143,488	615,467
02-Apr-03	5,097.5	44,639	478,430	144,870	623,300
09-Apr-03	5,105.6	44,710	483,745	145,855	629,600
16-Apr-03	5,121.9	44,853	487,333	148,267	635,600
23-Apr-03 <sup>2</sup>	4,910.0	42,997	492,504	152,796	645,300
29-Apr-03	4,926.3	43,140	495,729	155,771	651,500
07-May-03	4,926.3	43,140	499,877	158,223	658,100
15-May-03	4,926.3	43,140	499,877	158,223	658,100
21-May-03	4,942.6	43,283	515,230	172,470	687,700
28-May-03	4,958.9	43,425	522,943	175,357	698,300
03-Jun-03	4,967.1	43,497	524,602	176,598	701,200
10-Jun-03	4,975.2	43,568	529,728	178,472	708,200
17-Jun-03	4,983.4	43,640	534,411	179,789	714,200
26-Jun-03	4,983.4	43,640	540,050	180,950	721,000
02-Jul-03	4,983.4	43,640	543,291	181,909	725,200
09-Jul-03	4,983.4	43,640	549,991	181,909	731,900
16-Jul-03	4,991.5	43,711	553,174	185,526	738,700
22-Jul-03	4,999.7	43,783	556,643	186,957	743,600
30-Jul-03	5,007.8	43,854	560,726	188,074	748,800
06-Aug-03	5,040.4	44,139	562,275	188,825	751,100
20-Aug-03	5,081.2	44,496	567,361	191,139	758,500
28-Aug-03	5,138.2	44,995	570,561	191,139	761,700
04-Sep-03	5,316.7	46,559	572,759	191,841	764,600
11-Sep-03	5,382.7	47,137	575,659	191,841	767,500
19-Sep-03	5,423.5	47,494	579,259	191,841	771,100
25-Sep-03	5,366.4	46,994	578,399	197,101	775,500
03-Oct-03	5,382.7	47,137	584,399	197,101	781,500
09-Oct-03	5,399.0	47,279	583,771	198,229	782,000
24-Oct-03	5,452.0	47,743	589,679	200,821	790,500
29-Oct-03	5,472.4	47,922	592,579	200,821	793,400
06-Nov-03	5,521.3	48,350	596,979	200,821	797,800
13-Nov-03	5,537.6	48,493	598,764	200,836	799,600
11/19/2003	5,562.1	48,708	598,895	201,005	799,900
25-Nov-03	5,582.4	48,885	601,544	202,056	803,600
03-Dec-03	5,611.0	49,136	604,762	203,438	808,200
11-Dec-03	5,635.4	49,349	608,144	204,556	812,700
19-Dec-03	5,659.9	49,564	612,612	205,488	818,100
26-Dec-03	5,676.4	49,708	615,254	206,146	821,400
29-Dec-03	5,684.3	49,778	615,310	206,190	821,500
09-Jan-04	5,696.5	49,884	618,110	206,190	824,300
20-Jan-04	5,700.6	49,920	619,147	207,153	826,300
29-Jan-04	5,704.7	49,956	626,409	208,091	834,500
03-Feb-04	5,716.9	50,063	630,515	208,485	839,000
11-Feb-04	5,716.9	50,063	633,094	208,706	841,800
17-Feb-04	5,725.1	50,135	637,911	209,089	847,000
26-Feb-04	5,733.2	50,206	645,083	209,617	854,700
02-Mar-04	5,745.4	50,313	649,270	209,930	859,200
12-Mar-04	5,765.8	50,491	657,501	210,999	868,500
19-Mar-04	5,798.8	50,780	664,798	212,102	876,900
25-Mar-04	5,810.6	50,884	669,603	214,997	884,600
02-Apr-04	5,814.7	50,920	669,738	215,163	884,900
05-Apr-04	5,814.7	50,920	672,233	217,667	889,900
23-Apr-04	5,818.8	50,955	672,869	218,231	891,100
27-Apr-04	5,826.9	51,026	673,684	219,616	893,300

<sup>1</sup> Increase in coal tar removal w/ no change in groundwater removal volume due to coal tar collection tank and wash tank being pumped out and shipped to WRR in Eau Claire, WI. Total volume of 1324 gallons, w/ a current estimate of 85% coal tar in that volume.

<sup>2</sup> Correction of revised quantity of coal tar removed on 4/23/2003 of -211.9 gallons due to settling of emulsified coal tar measured on this date.